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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,042	12/30/2003	Wang Yueh	42P18259	9165
8791	7590 07/10/2006		EXAMINER	
BLAKELY SOKOLOFF TAYLOR & ZAFMAN			WALKE, AMANDA C	
12400 WILSI SEVENTH F	HIRE BOULEVARD		ART UNIT	PAPER NUMBER
02 . 2	ES, CA 90025-1030		1752	
			DATE MAILED: 07/10/2006	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/750,042	YUEH ET AL.					
Office Action Summary	Examiner	Art Unit					
	Amanda C. Walke	1752					
- The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	h the correspondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the meamed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re riod will apply and will expire SIX (6) MONT atute, cause the application to become ABA	ATION. ply be timely filed THS from the mailing date of this co ANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 1	2 January 2006						
	This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims			•				
4)⊠ Claim(s) <u>1-3,5-14,16-20 and 23-32</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>10</u> is/are allowed.	_ ′						
)⊠ Claim(s) <u>1-3, 5-9, 11-14, 16-20, and 23-32</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction ar	d/or election requirement.						
Application Papers		·					
9)☐ The specification is objected to by the Exan	niner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:	eign priority under 35 U.S.C. §	119(a)-(d) or (f).					
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a	list of the certified copies not r	eceived.					
Attachment(s)							
Attachment(s) 1) X Notice of References Cited (PTO-892)	4) Interview S	ummary (PTO-413)					
2) 🔲 Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	/Mail Date					
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date 	/08) 5) Notice of In:	formal Patent Application (PTO)-152)				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/12/2006 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 5, 7-9, 11-14, and 16-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Iwasa et al (6,437,052).

Iwasa et al disclose a monomer having a diol structure meeting the instant claim limiations for use in a negative resist composition and patterning process. The alicycli diols comprise –OH groups on adjacent carbons (see columns 3 and 4). Sutiable cycloolefin include adamantyl and norbornene structures. The resist further comprises a crosslinking agent, a PAG, and a solvent (see column 11). The resin coated onto a substrate, prebaked, exposed to light of a short wavelength such as 220 nm or shorter via an ArF laser, and developed (column 18). Suitable developers include 2.38 % TMAH. Given the teachings of the reference, the instant claims are anticipated.

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2, 3, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iwasa et al.

Iwasa et al has been discussed above, and further teaches that while not preferred, it is known in the art to include novolak monomers, or styrene based monomers in such compositions (column 1).

Given the teachings of the reference, it would have been obvious to one of ordinary skill in the art to prepare the material of Iwasa et al choosing to include an aromatic monomer in combination with the cyclic diol with reasonable expectation of achieving a material having high etch resistance.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Iwasa et al (2002/0016431), Harada et al (EP 1126322), Hanlon et al (4,767,550), Holdstock et al (2002/0042549), Becker et al (5,336,815), Lee et al (6,359,153), Narita et al (2004/0192867), Toishi et al (2003/0175620), and Rhodes et al (2003/0176583) are cited for their teachings of similar compounds.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amanda C. Walke whose telephone number is 571-272-1337. The examiner can normally be reached on M-R 5:30-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Amanda C Walke Examiner

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ACW March 30, 2006